ISSN 0300-8320

C.A.B. INTERNATIONAL INSTITUTE OF PARASITOLOGY
395A, HATFIELD ROAD,
ST. ALBANS,
HERTS. AL4 0XU
U.K.

Helminthological Abstracts

Series B Plant Nematology

1989 VOLUME 58 ANNUAL INDEXES

Includes List of Source Journals

PUBLISHED BY C·A·B INTERNATIONAL

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Series B Plant Nematology

is a quarterly journal prepared by the
CAB INTERNATIONAL BUREAU OF CROP PROTECTION
in association with the CAB International Institute of Parasitology

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1989

ISSN 0300–8320

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Information Services

The main task of the Information Services, located at the CAB International Centre (CABIC) at Wallingford, is the creation of a bibliographic database of research on agriculture, forestry and allied disciplines, including social sciences and aspects of human medicine. Abstract journals derived from the database, and online access to it, provide a unique source of information for research scientists, development planners, educators and students. Subsidiary but growing tasks are the publication of primary journals and reference works, and training information professionals in developing countries.

The Accessions Unit acquires the relevant scientific and technical literature for abstracting by almost 100 scientists/linguists in the following 11 Bureaux:

Agricultural Economics
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Animal Health
Dairy Science & Technology
Nutrition
Pastures & Field Crops
Crop Protection
Horticulture & Plantation Crops
Plant Breeding & Genetics
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Further material is acquired and processed by collaborating or contracted organizations. Other staff coordinate work on specialized directories and databanks, and commission new books and primary journals. The Publications Unit is responsible for printing the journals and books, and the Marketing & Sales Division promotes and sells Information Services products and services worldwide.

Scientific Services

CABI's Scientific Services consist of four Institutes and two support services:

CAB International Institute of Entomology (CIE), Director Dr K.M. Harris, located at 56 Queen's Gate, London, and in the British Museum, Natural History.

CAB International Mycological Institute (CMI), Director Professor D.L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

CAB International Institute of Parasitology (CIP), Director Dr R. Muller, located at Winches Farm, St. Albans, the field station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in their fields of expertise.

CAB International Institute of Biological Control (CIBC), Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

Development Services (CDS), Head Mr D. Heydon, integrate the broad range of CABI expertise to provide advice and assistance with agricultural problems, but particularly those related to pest management and information services.

Library Services, Manager Mr C.J. Hamilton, have their headquarters with CIBC at Silwood Park, where the main Library is held, with additional literature collections at CMI, CIP, CDS and CABIC. Library Services operate a Document Delivery Service.

Systems

The Systems Division provides computing resources and services to all parts of CABI. It maintains a central computing facility with telecommunications access to seven remote sites, including the four CABI Institutes. CABIC is served by a modern Local Area Network which provides access to the computers, and by advanced office automation facilities. The main computers are DEC VAX systems and the principal software systems are BASIS for data management and PAGER for typesetting and information retrieval.

The staff of 20 includes database production personnel, systems analysts, programmers and computer operators. The principal systems are for the production of the CABI bibliographic database and associated functions, plus accessions control, subscription management and electronic publishing.

CAB INTERNATIONAL INFORMATION SERVICES
PRODUCTS AND SERVICES

Almost 100 scientists/linguists in the 11 Bureaux of CABI's Information Services at Wallingford, UK, with help from associated organizations and individuals worldwide, abstract and index the significant research and development literature in agriculture, forestry and allied disciplines. Over 10,000 serials and many other publications are scanned, and approximately 130,000 bibliographic records are compiled each year. From this computerized database is derived a wide range of information services and products in hard copy and machine-readable form, designed to meet a variety of customer needs.

HARD COPY PRODUCTS

Abstract journals

The following abstract journals on specific disciplines, specialist crops or products, or particular livestock are published, mostly monthly or quarterly. Each has author and subject indexes, cumulated annually in a special issue of the journal.

Animal Science and Production
Animal Breeding Abstracts; Dairy Science Abstracts; Nutrition Abstracts & Reviews, Series B-Livestock Feeds & Feeding; Pig News & Information; Poultry Abstracts.

Veterinary Science and Parasitic Diseases
Helminthological Abstracts; Index Veterinarius; Protozoological Abstracts; Review of Medical & Veterinary Entomology; Review of Medical & Veterinary Mycology; Veterinary Bulletin.

Crop Science and Production
Crop Physiology Abstracts; Faba Bean Abstracts; Field Crop Abstracts; Herbage Abstracts; Horticultural Abstracts; Irrigation & Drainage Abstracts; Maize Abstracts; Ornamental Horticulture; Plant Breeding Abstracts; Plant Growth Regulator Abstracts; Postharvest News and Information; Potato Abstracts; Rice Abstracts; Seed Abstracts; Soils & Fertilizers; Sorghum & Millets Abstracts; Soyabean Abstracts; Sugar Industry Abstracts; Wheat, Barley & Triticale Abstracts.

Forestry
Agroforestry Abstracts; Forest Products Abstracts; Forestry Abstracts.

Crop Protection
Biocontrol News & Information; Nematological Abstracts; Review of Agricultural Entomology; Review of Plant Pathology; Weed Abstracts.

Economics, Development and Sociology
Leisure, Recreation & Tourism Abstracts; Rural Development Abstracts; World Agricultural Economics & Rural Sociology Abstracts.

Machinery and Buildings
Agricultural Engineering Abstracts.

Human Nutrition
Nutrition Abstracts & Reviews, Series A-Human & Experimental.

Biotechnology/Biodeterioration
AgBiotech News & Information; Biodeterioration Abstracts.

Also published is a series of current awareness publications (CAB Prompts) on specific crops. Subject indexes are not provided. Titles in the series so far are: *Groundnuts* and *Chickpeas/Pigeonpeas*. In addition, many retrospective compilations of abstracts (Annotated Bibliographies) on various topics are available on demand.

SDI Service

SDI (Selective Dissemination of Information) is a regular current awareness service based on the most recent input to the database. Subscribers decide their own search profile and receive search results at intervals of their choice, either as computer printout or on floppy discs suitable for most microcomputers. Delivery by airmail.

CAB Alerts

This is a special SDI service providing subscribers each month with the search results from standard profiles chosen by CABI. Numerous titles are available and the list is regularly updated to reflect new subject interests. Output is available on computer printout posted by airmail.

MACHINE-READABLE PRODUCTS AND SERVICES

Online Access

The machine-readable database, known as CAB ABSTRACTS, is publicly accessible online through DIALOG Information Services (USA), BRS Information Technologies (USA), ESA-IRS (Italy), DIMDI (GFR), JICST (Japan), CAN-OLE (Canada) and Tsukuba Daigaku (Japan). The whole database back to 1973 contains over 2 million records. Search aids include the CAB ABSTRACTS Online Manual, the CAB Thesaurus (1988 Edition) and the CAB International Serials Checklist (1988).

CAB ABSTRACTS on Compact Disc

The database is also available on CD-ROM (Compact Disc Read Only Memory). Volume one contains bibliographic citations and abstracts for 1984-86; the second volume contains the 1987-89 data. CD-ROM technology provides an online search capability without the worries of cost or telecommunication problems. An IBM or fully IBM-compatible PC, 640 K RAM, MS-DOS or PC-DOS version 2.1 or higher, and a CD-ROM player are needed. The SPIRS (SilverPlatter Information Retrieval System) software allows maximum search flexibility.

Magnetic tapes

Organizations with access to mini or mainframe computers may lease all or part of CAB ABSTRACTS on magnetic tape. Update tapes are issued monthly, and retrospective tapes as required.

OTHER PRODUCTS AND SERVICES

Document Delivery Service

Photocopies of originals of most articles included in the database are available from CABI Library Services, Silwood Park, Ascot, UK. Documents may also be ordered online via DIALOG's DIALORDER or ESA/IRS's PRIMORDIAL.

Books and serial publications

CABI publishes authoritative reference books, directories and serial publications, the latter including *Bulletin of Entomological Research, Outlook on Agriculture, Index of Current Research on Pigs, Distribution Maps of Pests, Distribution Maps of Plant Diseases, Bibliography of Systematic Mycology, Descriptions of Pathogenic Fungi & Bacteria, Index of Fungi,* and *Systema Ascomycetum*. CABI is a co-sponsor of the International Food Information Service which publishes *Food Science & Technology Abstracts.*

NOTES TO READERS

Helminthological Abstracts, Series B, Plant Nematology

Helminthological Abstracts, Series B, Plant Nematology provides a quarterly summary of the recent literature on all aspects of work on nematodes parasitic in or on plants, including morphology, taxonomy and nomenclature, techniques, cytology, genetics, biochemistry, development, life-history, ecology, host resistance, interactions with other pathogens and the pathology, epidemiology and control of the infections they cause.

Coverage also includes literature on free-living nematodes in marine or fresh water or in the soil, and on nematodes parasitic in insects and other invertebrates as final hosts. Coverage of the literature on nematodes of animals and man will be found in Helminthological Abstracts, Series A, Animal and Human Helminthology.

The abstracts enable readers to keep themselves informed of the progress of current work and allow them to decide whether or not they need to see the original document.

Photocopies of most of the papers abstracted are obtainable through the Library of the CAB International Institute of Parasitology.

Over 2000 serial publications as well as books, reports and theses are regularly examined for relevant material, principally research findings and reviews. Some background papers may be abstracted briefly and others of local or marginal interest are referred to by title only.

When consulting an entry the reader should remember that the title is an integral part of the abstract and may include information necessary for its full comprehension.

In a typical entry the name(s) of the author(s) are followed by the title of the paper in English. If the paper is written in a language other than English, the English translation of the title is given in square brackets. The title in the original language, if not English, follows, except for Arabic, Chinese, Japanese etc. Cyrillic characters are transliterated for the titles of books but not for the titles of papers. Journal titles are next given in unabbreviated form. The year of issue, in round brackets, the volume number, part number in round brackets, and first and last page numbers of the article complete the basic citation.

Supplementary details given in square brackets include the language of the paper (a two letter abbreviation with an initial capital) and the language of any summary or summaries in languages other than that of the paper (a similar abbreviation without an initial capital); the number of references, plates , figures, graphs, maps, tables may also be included. The address of the first author is given. Some commonly used abbreviations are listed below.

Conference papers, whether published in book form or as proceedings, appear either as a single general abstract under the classification "Conferences" or as a number of abstracts under appropriate classifications with a single general entry under "Conferences".

Every effort is made to achieve consistency in the nomenclature of nematodes. Preferred names, as defined by the International Commission for Zoological Nomenclature, are used in the abstracts, sometimes introduced by square brackets, and also in the subject index. Hosts are usually given as in the original paper although an effort is made to use the Latin name, if it is known, in preference to the common name. Only the well known crops are referred to by their common names.

Nematicides and other pesticides used for, or associated with, the control of nematodes are given in the same form as in the original paper, including the proprietary name if stated. Where necessary, a preferred name is added in square brackets, and this preferred name is used in the index.

Abstracts are arranged under classifications that reflect the main emphasis of the work. When more than one aspect is covered in a paper there may be a cross reference between classifications but the abstract will appear only once. However, the classification "Taxonomy and Nomenclature" has highest priority so that abstracts containing descriptions of new taxa will appear in this section even if the main part of the work may be appropriate to some other classification. The classification must be seen as a rough guide only and reference should be made to the subject index for more specific searching.

The subject index is a parasite-orientated index, so that entries are under parasite and host rather than disease. Thus all papers on White Tip Disease of rice will be indexed under the name of the causative nematode, Aphelenchoides besseyi.

Access to most of the papers abstracted since 1930 is available within the CAB International Institute of Parasitology with the aid of cumulated indices, and, along with extensive library holdings of journals, books and reprints, these represent one of the world's most significant collections of information on parasitology. Readers are encouraged to write to the Institute if they have any problems with the nematological literature or to visit the library themselves to carry out bibliographical research.

On-line facilities are also available for searching all abstracts published since 1973. From time to time, review articles by authoritative authors are published.

Abbreviations

a.i.	active ingredient
coeff.	coefficient
conc.	concentrated
concn	concentration(s)
CV	coefficient of variation
DM	dry matter
DW	dry weight
ED	effective dose
ELIEDA	enzyme-linked immunoelectrodiffusion assay
ELISA	enzyme-linked immunosorbent assay
EM	electron microscope
FW	fresh weight
Hm/B	Helminthological Abstracts, Series B
ID	infective dose
IU	international unit
J_2	2nd-stage juvenile(s)
LC	lethal concentration
LD	lethal dose
LT	lethal time
*comb. nov.	new combination
*fam. nov.	new family
*gen. nov.	new genus
nom. nov.	nomen novum
nom. nud.	nomen nudum
n.s.d.	no significant difference
*sp. nov.	new species
*subsp. nov.	new subspecies
PAGE	polyacrylamide gel electrophoresis
RH	relative humidity
SEM	scanning electron microscope
syn.	synonym
sp. inq.	species inquirenda
str.	strain
TEM	transmission electron microscope

*New abbreviations, introduced 1989.

Languages

An initial capital denates the language of the paper, an initial small letter the language of the summary.

Af	Afrikaans	Fi	Finnish	Nl	Dutch
Al	Albanian	Fr	French	No	Norwegian
Ar	Arabic	Gr	Greek	Pe	Persian
Az	Azerbaijani	He	Hebrew	Pl	Polish
Be	Byelorussian (White Russian)	Hu	Hungarian	Pt	Portuguese
		Ia	Interlingua	Ro	Romanian
Bg	Bulgarian	In	Indonesian	Ru	Russian
Ch	Chinese	Is	Icelandic	Sh	Serbo-Croat (either script)
Cs	Czech	It	Italian		
Da	Danish	Ja	Japanese	Sk	Slovak
De	German	Ko	Korean	Sn	Slovene
Ee	Estonian	La	Latin	Sv	Swedish
En	English	Li	Lithuanian	Ta	Tajik
Eo	Esperanto	Lv	Latvian	Tr	Turkish
Es	Spanish	Ma	Macedonian	Uk	Ukrainian

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Identification services
C·A·B International Institute of Parasitology (CIP) provides an identification service for helminth parasites of animals and man, and plant parasitic and entomophilic nematodes.

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Division of Plant Nematode Taxonomy:
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Onchocerciasis Research Unit
The Onchocerciasis Research Unit is funded by (1) the World Health Organisation to work on drug discovery and development as part of a major programme to produce new drugs for the safe and effective treatment of human onchocerciasis (River Blindness), and (2) the Edna McConnell Clark Foundation to develop a vaccine to prevent infection with *Onchocerca*.

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Tropical Plant Nematology Advisory and Research Unit
The unit gives practical advice on plant-parasitic nematode problems and their control, and undertake research contracts both overseas and at the Institute.

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Collections
CIP houses extensive reference collections of both animal helminths and plant-parasitic nematodes, the collections of several eminent helminthologists, and is the WHO Collaborating Centre for the Filarioidea. It is also a recognised repository for type specimens.

Books
Latest titles: Siddiqi, M.R. 1986 Tylenchida; Parasites and Insects 645pp. 166 illus. ISBN 0 85198 554 8
Gibbons, L.M. 1986 SEM Guide to Morphology of Nematode Parasites of Vertebrates 200 pp. 443 illus. ISBN 0 85198 569 6
Jepson S.B. 1987 Identification of Root-Knot Nematodes (*Meloidogyne* species) x + 265pp. inc. illus. & figs. ISBN 0 85198 556 4
Muller, R. & Horsburgh, R.C.R. 1987 Bibliography of Onchocerciasis (1841-1985) 468pp. ISBN 0 85198 604 8

Training Courses
Six-week intensive international training courses on animal helminth parasites and plant-parasitic nematodes are held in alternate years.

LIBRARY SERVICES

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Searches undertaken on relevant databases.

Document delivery
Photocopies of publications abstracted by CABI supplied.

Annotated Bibliographies
Current list available and new compilations undertaken on request.
For further information contact B. Pedersen BA,ALA

HELMINTHOLOGICAL ABSTRACTS SERIES B, PLANT NEMATOLOGY

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Many other serials were scanned during 1989 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition.* The publication includes ISSNs and publishers' addresses. See a separate page of this Index for details.

Abstracts on Cassava
Abstracts on Field Beans
ACS Symposium Series, American Chemical Society
Acta Agriculturae Universitatis Jilinensis
Acta Agronómica, Universidad Nacional de Colombia
Acta Entomologica Lituanica
Acta Forestalia Fennica
Acta Horticulturae
Acta Parasitologica Lituanica
Acta Phytopathologica et Entomologica Hungarica
Acta Phytopathologica Sinica
Acta Zoologica Bulgarica
Acta Zoologica Hungarica
Acta Zootaxonomica Sinica
Agricultura Técnica
Agricultural and Biological Chemistry
Agricultural News
Agricultural Science Digest, India
Agriculture and Human Values
Agriculture, Ecosystems and Environment
Agrochémia
Agrologist
Agronomie
Agronomy Journal
Agrotécnia de Cuba
Allionia
American Journal of Enology and Viticulture
American Journal of Tropical Medicine and Hygiene
American Nurseryman
American Potato Journal
Anais da Sociedade Entomológica do Brasil
Analele Institutului de Cercetări pentru Protecţia Plantelor
Anales de Edafología y Agrobiología
Analytical Chemistry
Annales Société Royale Zoologique de Belgique
Annali dell'Istituto Sperimentale per il Tabacco
Annals of Agricultural Research
Annals of Agricultural Science, Ain Shams University
Annals of Applied Biology
Annals of Applied Nematology
Annals of the Phytopathological Society of Japan
Annual Report of the Society of Plant Protection of North Japan
Annual Report, Kanto Forest Tree Breeding Institute, Japan
Annual Review of Entomology
Anzeiger für Schädlingskunde, Pflanzenschutz, Umweltschutz
Applied Entomology and Zoology
Arab Journal of Plant Protection
Archiv der Pharmazie
Archiv für Phytopathologie und Pflanzenschutz
Arkansas Farm Research
Aspects of Applied Biology
Australian Journal of Agricultural Research
Australian Journal of Experimental Agriculture
Australian Plant Pathology
AVRDC Publication, Asian Vegetable Research and Development Center
Bibliographie der Pflanzenschutzliteratur
Bibliographies and Literature of Agriculture, US Department of Agriculture
Biochemical Genetics
Biochemical Journal
Biochemical Society Transactions
Biochemie und Physiologie der Pflanzen
Biochimica et Biophysica Acta, G (General Subjects)
BioEssays
Biofutur
Biological and Cultural Tests for Control of Plant Diseases
Biological Cybernetics
Biological Wastes
Biologicheskiĭ Zhurnal Armenii
Biologicheskiĭ Zhurnal Uzbekistana
Biologiya Vnutrennikh Vod
Biology and Fertility of Soils
BioScience
Boletim Técnico, Programa de Pesquisa, Organização das Cooperativas do Estado do Paraná
Boletín de Sanidad Vegetal, Plagas
Botanical Bulletin of Academia Sinica, Taiwan
Brenesia
British Reports, Translations and Theses
Buletin Penelitian Hortikultura
Bulletin Agronomique Antilles-Guyane
Bulletin OEPP
Bulletin of National Institute of Hygienic Sciences (Eisei Shikenjo Hoikoku)
Bulletin of the Faculty of Agriculture, Saga University
Bulletin of the Institute of Tropical Agriculture, Kyushu University
Bulletin of the Institute of Zoology, Academia Sinica, Taiwan
Bulletin of the National Institute of Agro-Environmental Sciences, Japan (Nogyo Kankyo Gijutsu Kenkyusho Hokoku)
Bulletin of the Society of Vector Ecologists
Bulletin of the World Health Organization
Bulletin, Agricultural Experiment Station, University of Florida
Bulletin, British Antarctic Survey
Bulletin, Connecticut Agricultural Experiment Station
Byulleten' Moskovskogo Obshchestva Ispytatelei Prirody, Biologicheskiĭ.
Byulleten', Vsesoyuznogo Nauchno-Issledovatel'skogo Institut Zashchity Rasteniĭ
Cahier des Journées Horticoles Ornementales
Cahiers de Biologie Marine
California Agriculture
Canadian Journal of Botany
Canadian Journal of Forest Research
Canadian Journal of Microbiology
Canadian Journal of Plant Pathology
Canadian Journal of Plant Science
Canadian Journal of Soil Science
Canadian Journal of Zoology
Canadian Plant Disease Survey
Capsicum Newsletter
Carolinea
Cell
Cell Motility and the Cytoskeleton
Centerpoint, Taiwan
Cercetări Agronomice în Moldova
Chemistry and Industry
China's Fibre Crops
Chinese Journal of Biological Control
Chinese Journal of Zoology
Ciência Biológica, Ecology and Systematics
Ciencia y Técnica en la Agricultura, Café y Cacao
Ciencia y Técnica en la Agricultura, Hortalizas, Papa, Granos y Fibras
Ciencia y Técnica en la Agricultura, Protección de Plantas
Ciencias de la Agricultura
Circular, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida
Citrograph
Citrus and Subtropical Fruit Journal
Clays and Clay Minerals
Comparative Biochemistry and Physiology, B (Comparative Biochemistry)
Comptes Rendus de l'Académie d'Agriculture de France
Comptes Rendus de l'Académie des Sciences III (Sciences de la Vie)
CRC Critical Reviews in Plant Sciences
Crop Improvement
Crop Protection
Crop Science
Cuaderno de Actualización Técnica, Estación Experimental Agropecuaria Manfredi
Current Genetics
Current Research Reporter, Mahatma Phule Agricultural University
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Cytobios

Date Palm Journal
Deciduous Fruit Grower
Deep-Sea Research, A
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Dissertation Abstracts International, A (Humanities and Social Sciences)
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DLG-Mitteilungen
Doklady Vsesoyuznoĭ Ordena Lenina i Ordena Trudovogo Krasnogo Znameni Akademii Sel'skokhozyaĭstvennykh Nauk Imeni V.I. Lenina
Ecological Modelling
Ecological Monographs
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Ecotoxicology and Environmental Safety
Entomon
Entomophaga
Entopath News
Environment and Ecology
Environmental Entomology
Environmental Health Criteria
Environmental Toxicology and Chemistry
EPPO Publications, B
Ethiopian Journal of Agricultural Sciences
Euphytica
European Directory of Agrochemical Products
Experimental and Applied Acarology
Experimental Gerontology
Extension Bulletin, ASPAC Food and Fertilizer Technology Center for the Asian and Pacific Region, Taiwan
FAO Plant Production and Protection Paper
FAO Plant Protection Bulletin
Farming in South Africa
FEBS Letters
Fitopatologia Brasileira
Fitopatologiá Colombiana
Florida Entomologist
Forest Pest and Disease
Forest Research
Forst- und Holzwirt
Fundamental and Applied Toxicology
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Gb + Gw
Gene
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General Technical Report, Rocky Mountain Forest and Range Experiment Station, USDA Forest Service
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Indian Agriculturist
Indian Cocoa, Arecanut & Spices Journal
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Indian Journal of Helminthology
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Informator o Wynikach Badań Naukowych Zakończonych, 5 (Ochrona Roślin)
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Informatore Fitopatologico
Informe Agropecuário
Insect Science and its Application
International Agrophysics
International Arachis Newsletter
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International Journal of Tropical Plant Diseases
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Izvestiya Akademii Nauk Azerbaĭdzhau-Skoĭ SSR, Biologicheskie Nauki
Izvestiya Akademii Nauk Turkmenskoĭ SSR
Japanese Journal of Applied Entomology and Zoology
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Japanese Journal of Sanitary Zoology
Japanese Journal of Veterinary Research
JAPCA
JARQ (Japan Agricultural Research Quarterly)
Journal of Agricultural Entomology
Journal of Agricultural Research, Pakistan
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Journal of Agriculture and Water Resources Research, Plant Production
Journal of Agriculture of the University of Puerto Rico
Journal of Antibiotics
Journal of Applied Entomology
Journal of Arid Environments
Journal of Biological Chemistry
Journal of Biological Control
Journal of Cell Biology
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Journal of Chromatography
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Journal of Entomological Research
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Journal of Fujian Agricultural College
Journal of Horticultural Science
Journal of Hygienic Chemistry
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Journal of Parasitology
Journal of Phytopathology
Journal of Plant Nutrition
Journal of Plant Protection in the Tropics
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Journal of Production Agriculture
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Journal of South China Agricultural University
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Journal of Submicroscopic Cytology and Pathology
Journal of the American Society for Horticultural Science
Journal of the Association of Official Analytical Chemists
Journal of the Egyptian Society of Parasitology
Journal of the Indian Botanical Society
Journal of the Indian Society of Soil Science
Journal of the Iowa Academy of Science
Journal of the Japanese Forestry Society
Journal of the Kansas Entomological Society
Journal of the Marine Biological Association of the United Kingdom
Journal of the National Institute of Agricultural Botany, UK
Journal of Yunnan Agricultural University
Kartofel' i Ovoshchi
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Korean Journal of Plant Pathology
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Landwirtschaftliches Jahrbuch der Schweiz
Laranja
Life Sciences
Madras Agricultural Journal
Marine Biology
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Materiały Sesji Instytutu Ochrony Roślin
Mechanisms of Ageing and Development
Mededelingen van de Faculteit Landbouwwetenschappen, Rijksuniversiteit Gent
Medical Hypotheses
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Mitteilungen aus der Biologischen Bundesanstalt für Land- und Forstwirtschaft Berlin-Dahlem
Molecular and Biochemical Parasitology
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New Zealand Journal of Agricultural Research
New Zealand Journal of Science
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Ochrona Prírody
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Oléagineux
Oryza
Overseas Research Publication Series, Overseas Development Administration, UK
Ovoshcharstvo, Gradinarstvo i Konservna Promishlenost
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Pakistan Journal of Nematology
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Pamiętnik Puławski
Parasitology
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Peanut Science
Pedobiologia
Pemberitaan, Penelitian Tanaman Industri, Indonesia
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Publication, Agriculture Canada
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Redia
Reference Book of the Ministry of Agriculture, Fisheries and Food, UK
Report, Tea Scientific Department, United Planters' Association of Southern India
Research Bulletin of the Hokkaido National Agricultural Experiment Station
Research Extension Series, Hawaii Institute of Tropical Agriculture and Human Resources
Research Paper, Southeastern Forest Experiment Station, USDA Forest Service
Résumé des Recherches, Station de Recherches de Saint-Jean-sur-Richelieu, Québec
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Reviews of Environmental Contamination and Toxicology
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Revista de Investigaciones Agropecuarias INTA
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Sbornik Nauchnykh Trudov po Prikladnoĭ Botanike, Genetike i Selektsii
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Scanning Microscopy
Schriftenreihe des Bundesministers für Ernährung, Landwirtschaft und Forsten, A (Angewandte Wissenschaft), German Federal Republic
Science, USA
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Selektsiya i Semenovodstvo, Moscow
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Shandong Agricultural Science
Shanxi Agricultural Science
Sibirskiĭ Vestnik Sel'skokhozyaĭstvennoĭ Nauki
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South African Journal for Enology and Viticulture
South African Journal of Zoology
Soviet Soil Science
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Sri Lanka Journal of Tea Science
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Technical Bulletin, Mississippi Agricultural and Forestry Experiment Station
Terra e Sole
Tidsskrift for Planteavl
Tissue & Cell
Tobacco Research
Toxicological and Environmental Chemistry
Trends in Genetics
Tri-ology Technical Report
Tropical Pest Management
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Uttar Pradesh Journal of Zoology
Uzbekiston Biologija Žurnali
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Växtskyddsnotiser
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Zoologicheskiĭ Zhurnal

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PRODUCTS AND SERVICES

Almost 100 scientists/linguists in the 11 Bureaux of CABI's Information Services at Wallingford, UK, with help from associated organizations and individuals worldwide, abstract and index the significant research and development literature in agriculture, forestry and allied disciplines. Over 10,000 serials and many other publications are scanned, and approximately 130,000 bibliographic records are compiled each year. From this computerized database is derived a wide range of information services and products in hard copy and machine-readable form, designed to meet a variety of customer needs.

HARD COPY PRODUCTS

Abstract journals

The following abstract journals on specific disciplines, specialist crops or products, or particular livestock are published, mostly monthly or quarterly. Each has author and subject indexes, cumulated annually in a special issue of the journal.

Animal Science and Production
Animal Breeding Abstracts; Dairy Science Abstracts; Nutrition Abstracts & Reviews, Series B-Livestock Feeds & Feeding; Pig News & Information; Poultry Abstracts.

Veterinary Science and Parasitic Diseases
Helminthological Abstracts; Index Veterinarius; Protozoological Abstracts; Review of Medical & Veterinary Entomology; Review of Medical & Veterinary Mycology; Veterinary Bulletin.

Crop Science and Production
Crop Physiology Abstracts; Faba Bean Abstracts; Field Crop Abstracts; Herbage Abstracts; Horticultural Abstracts; Irrigation & Drainage Abstracts; Maize Abstracts; Ornamental Horticulture; Plant Breeding Abstracts; Plant Growth Regulator Abstracts; Postharvest News and Information; Potato Abstracts; Rice Abstracts; Seed Abstracts; Soils & Fertilizers; Sorghum & Millets Abstracts; Soyabean Abstracts; Wheat, Barley & Triticale Abstracts.

Forestry
Agroforestry Abstracts; Forest Products Abstracts; Forestry Abstracts.

Crop Protection
Biocontrol News & Information; Nematological Abstracts; Review of Agricultural Entomology; Review of Plant Pathology; Weed Abstracts.

Economics, Development and Sociology
Leisure, Recreation & Tourism Abstracts; Rural Development Abstracts; World Agricultural Economics & Rural Sociology Abstracts.

Machinery and Buildings
Agricultural Engineering Abstracts.

Human Nutrition
Nutrition Abstracts & Reviews, Series A-Human & Experimental.

Biotechnology/Biodeterioration
AgBiotech News & Information; Biodeterioration Abstracts.

Also published is a series of current awareness publications (CAB Prompts) on specific crops. Subject indexes are not provided. Titles in the series so far are: *Groundnuts* and *Chickpeas/Pigeonpeas*. In addition, many retrospective compilations of abstracts (Annotated Bibliographies) on various topics are available on demand.

SDI Service

SDI (Selective Dissemination of Information) is a regular current awareness service based on the most recent input to the database. Subscribers decide their own search profile and receive search results at intervals of their choice, either as computer printout or on floppy discs suitable for most microcomputers. Airmail ensures fast delivery.

CAB Alerts

This is a special SDI service providing subscribers each month with the search results from standard profiles chosen by CABI. Numerous titles are available and the list is regularly updated to reflect new subject interests. Output is available on computer printout posted by airmail.

MACHINE-READABLE PRODUCTS AND SERVICES

Online Access

The machine-readable database, known as CAB ABSTRACTS, is publicly accessible online through DIALOG Information Services (USA), BRS Information Technologies (USA), ESA-IRS (Italy), DIMDI (GFR), JICST (Japan), CAN-OLE (Canada) and Tsukuba Daigaku (Japan). The whole database back to 1973 contains over 2 million records. Search aids include the CAB ABSTRACTS Online Manual, the CAB Thesaurus (1988 Edition) and the CAB International Serials Checklist (1988).

CAB ABSTRACTS on Compact Disc

The database is also available on CD-ROM (Compact Disc Read Only Memory). Volume one contains bibliographic citations and abstracts for 1984-86; the second volume contains the 1987-89 data. CD-ROM technology provides an online search capability without the worries of cost or telecommunication problems. An IBM or fully IBM-compatible PC, 640 K RAM, MS-DOS or PC-DOS version 2.1 or higher, and a CD-ROM player are needed. The SPIRS (SilverPlatter Information Retrieval System) software allows maximum search flexibility.

Magnetic tapes

Organizations with access to mini or mainframe computers may lease all or part of CAB ABSTRACTS on magnetic tape. Update tapes are issued monthly, and retrospective tapes as required.

OTHER PRODUCTS AND SERVICES

Document Delivery Service

Photocopies of originals of most articles included in the database are available from CABI Library Services, Silwood Park, Ascot, UK. Documents may also be ordered online via DIALOG's DIALORDER or ESA/IRS's PRIMORDIAL.

Books and serial publications

CABI publishes authoritative reference books, directories and serial publications, the latter including *Bulletin of Entomological Research, Outlook on Agriculture, Index of Current Research on Pigs, Distribution Maps of Pests, Distribution Maps of Plant Diseases, Bibliography of Systematic Mycology, Descriptions of Pathogenic Fungi & Bacteria, Index of Fungi,* and *Systema Ascomycetum*. CABI is a co-sponsor of the International Food Information Service which publishes *Food Science & Technology Abstracts.*

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P.O. Box 5050 Tokyo International 100-31, Japan

Printed by Unwin Brothers Ltd., The Gresham Press, Old Woking, Surrey, U.K.
A Member of the Martins Printing Group

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The Organization
CAB International (CABI) is an international, intergovernmental organization registered with the United Nations. It is owned and administered by its member governments; these currently number 29, but membership is open to all governments who wish to participate. Established in 1928, the organization provides information, scientific, and development services for agriculture and allied disciplines throughout the world.

Information Services
The main task of the Information Services, located at the CAB International Centre (CABIC) at Wallingford, is the creation of a bibliographic database of research on agriculture, forestry and allied disciplines, including social sciences and aspects of human medicine. Abstract journals derived from the database, and online access to it, provide a unique source of information for research scientists, development planners, educators and students. Subsidiary but growing tasks are the publication of primary journals and reference works, and training information professionals in developing countries.

The Accessions Unit acquires the relevant scientific and technical literature (ca 10,000 serials and over 5,000 other publications annually) for abstracting by almost 100 scientists/linguists in the following 11 Bureaux:

- Agricultural Economics
- Animal Breeding & Genetics
- Animal Health
- Dairy Science & Technology
- Nutrition
- Pastures & Field Crops
- Crop Protection
- Horticulture & Plantation Crops
- Plant Breeding & Genetics
- Soils
- Forestry

Further material is acquired and processed by collaborating or contracted organizations. Other staff coordinate work on specialized directories and databanks, and commission new books and primary journals. The Publications Unit is responsible for printing the journals and books, and the Marketing & Sales Division promotes and sells Information Services products and services world-wide (see inside back cover for details).

Scientific Services
CABI's Scientific Services consist of four institutes and two support services:

CAB International Institute of Entomology (CIE), Director Dr K.M. Harris, located at 56 Queen's Gate, London, and in the British Museum, Natural History.

CAB International Mycological Institute (CMI), Director Professor D.L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

CAB International Institute of Parasitology (CIP), Director Dr R. Muller, located at Winches Farm, St Albans, the field station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in their fields of expertise.

CAB International Institute of Biological Control (CIBC), Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

Development Services, (CDS), Head Mr D. Heydon, integrate the broad range of CABI expertise to provide advice and assistance with agricultural problems, but particularly those related to pest management and information services.

Library Services, Manager Mr C.J. Hamilton, have their headquarters with CIBC at Silwood Park, where the main Library is held, with additional literature collections at CMI, CIP, CDS and CABIC. Library Services operate a Document Delivery Service.

Systems
The Systems Division provides computing resources and services to all parts of CABI. It maintains a central computing facility with telecommunications access to seven remote sites, including four CABI Institutes. CABIC is served by a modern Local Area Network which provides access to the computers, and by advanced office automation facilties. The main computers are DEC VAX systems and the principal software systems are BASIS for data management and information retrieval and PAGER for typesetting.

The staff of 20 includes database production personnel, systems analysts, programmers and computer operators. The principal systems are for the production of the CABI bibliographic database and associated functions, plus accessions control, subscription management and electronic publishing.

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